## We Claim:

- A substrate of a disk for recording information, wherein said substrate is made of glass containing SiO<sub>2</sub> in an amount of 40-80% by weight, Al<sub>2</sub>O<sub>3</sub> in an amount up to 17% by weight, and at least one rare earth element selected from the group consisting of Sc, Y, Pr, Nd, Pm, Sm and Eu, and has a transmittance for visible white light of said substrate is at least 60% and a surface roughness of 5 nm or less.
- 2. A substrate according to claim 1, wherein

said substrate comprises fine particles having an average particle size in the range of 1 - 100 nm and a glass matrix, and said find particles are dispersed in said glass matrix.

- A substrate according to claim 2, wherein said fine particles are crystalline and said glass matrix is amorphous.
- A substrate according to claim 2, wherein
   said glass matrix is any of soda lime glass and silicates glass.
- A substrate according to claim 2, wherein said rare earth element is included in said fine particles and said glass matrix.

- A substrate according to claim 2, wherein
   a volume fraction of said fine particles is in the range of 1% 40% to
  the total volume of said substrate.
- A substrate according to claim 1, wherein
   said substrate has a hardness at least Hv 640.
- A substrate according to claim 1, wherein said substrate has thermal expansion coefficient in the range of 70 130 X 10<sup>-7</sup>.
- A substrate according to claim 1, wherein said substrate includes said rare earth element in the range of 0.5 by weight to the total amount of said substrate on a basis of converted weight to oxide Ln203 (Ln is rare earth element).
- 10. A recording information disk comprising a layer for recording information and a substrate, wherein said substrate is the substrate claimed in claim 1.
- 11. A recording information disk comprising a magnetic disk comprising the substrate according to claim 1 and a layer for recording information comprising a magnetic recording medium film.

- 12. A recording information disk according to claim 11, wherein said magnetic recording medium film is formed directly on the surface of said substrate.
- 13. A recording information disk according to claim 10, wherein said recording information disk is a photodisk or a photomagnetic disk, the thickness of said substrate is, at the utmost, 0.38 mm, and the diameter of said substrate is at least 2.5 inches.
- 14. An information recording disk apparatus comprising a disk for recording information,

a head for reading out information from said disk or inputting information to said disk,

- a driver for said disk, and
  a driver for said head, wherein
  said disk is the recording information disk claimed in claim 10.
- 15. An hard disk apparatus comprising a magnetic disk for recording information.

a head for reading out information from said magnetic disk or inputting information to said magnetic disk,

- a driver for said magnetic disk, and
- a driver for said head, wherein

said magnetic disk comprises the substrate claimed in claim 1.

- 16. A photomagnetic disk for recording information, comprising the substrate according to claim 1.
- 17. A substrate of a disk for recording information, wherein said substrate is made of glass containing SiO<sub>2</sub> in an amount of 40-80% by weight, Al<sub>2</sub>O<sub>3</sub> in an amount up to 17% by weight, and at least one rare earth element selected from the group consisting of Sc, Y, Pr, Nd, Pm, Sm and Eu, has a transmittance for visible white light of said substrate is at least 60% a surface roughness of 5 nm or less, and is made without a chemical strengthening treatment or crystallizing treatment.